

No Fault Safety Tile

Product Specification

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By No Fault Sport Group, LLC

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SAFETY TILE SURFACING FOR PLAYGROUNDS

PART 1 GENERAL

1.01 WORK INCLUDED

This work includes furnishing and installing the No Fault Safety Tile. The safety tile installer shall be responsible for all labor, materials, tools, and equipment to perform all work and services for the installation of the surface per the dimensions and notes shown in plans.

1.02 DESCRIPTION OF SYSTEM & GENERAL CONDITIONS

No Fault Safety Tile is a unique, shock-absorbing resilient tile that provides a permanent, maintenance-free answer to playground safety and accessibility needs. No Fault Safety Tile shall comply with, meet or exceed all requirements set forth in the Americans with Disabilities Act (ADA) and the American Standard Testing Methods (ASTM) and Consumer Products Safety Commission (CPSC) for manufactured Safety Surfaces as detailed below.

1.03 QUALITY ASSURANCE

A. Test Results

1. Impact Attenuation - ASTM F 1292: Surfacing within playground equipment use zones shall meet or exceed the performance requirements of CPSC, ASTM F 1292 and/or CSA Z614-98 that a surface yield both a peak deceleration of no more than 200 g's and a Head Injury Criteria (HIC) value of no more than 1,000 for a head-first fall from the highest accessible portion of play equipment being installed as shown on drawings. Manufactured Safety Surface: For surfaces manufactured for the purpose of playground safety surface, the impact attenuation performance shall be documented by a certificate of compliance provided by third party at owner or contractor's expense
2. Tear Resistance – ASTM D-624, Die C shall meet or exceed 13.13KN/M
3. Abrasion Testing – ASTM-D-3389 shall meet or exceed 0.20mg loss/revolution
4. Coefficient of Friction – DIN 18035 Part 6 shall meet or exceed 0.54 when Dry & aged for 42 days, and 0.76 when wet and aged for 42 days
5. Flammability – ASTM D-2859-96 shall pass
6. Fungal Resistance – ASTM G21-96 shall be less than 10% after 60 days with no discoloration
7. Tensile Strength – DIN 18035 Part 6 shall meet or exceed 1.43N/(mm)²
8. Elongation at Break – DIN 18035 Part 6 shall meet or exceed 118%
9. Accessibility of Surface Systems – ASTM F1951: All playground surfacing products must pass testing to ensure wheelchair access under and around playground equipment as required by the American Disabilities Act
10. IPEMA Certification Required: "In the Interest of playground safety, the International Play Equipment Manufacturers Association (IPEMA) provides a Third Party Certification Service whereby a designated independent laboratory, TÜV SÜD America Inc., (TÜV), validates a surfacing manufacturer's certification of conformance to ASTM F1292, Standard Specification for Impact Attenuation Under and Around Playground Equipment, and for an engineered wood fiber manufacturer its certification of conformance, also to ASTM F2075, Standard Specification for Engineered Wood Fiber for use as a Playground Safety Surface Under and Around Playground Equipment, and Section 4.4, for testing Sieve Analysis and Section 4.6, for testing the presence of Tramp Metal. A list of current validated products, their thickness and critical height may be viewed at www.ipema.org."

1.04 SUBMITTALS

- A. One original hard copy of the submittal package will be supplied with additional copies on Manufacturer's CD. Upon request, additional hard copies shall be supplied.
- B. Manufacturer's descriptive data and installation instructions shall be supplied upon request.
- C. Manufacturer's details showing depths of surface and sub-base materials, anchoring systems (if required) and edge details shall be supplied upon request.

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- D. A list of all materials and components to be installed, including storage requirements, and precautions, and shall state chemical composition and test results to which material has been subjected in compliance with these specifications shall be provided upon request.
- E. Test results to substantiate that the product meets or exceeds all ASTM & ADA requirements for each standard listed in Section 1.03 Quality Assurance.
- F. Upon request, Manufacturer shall supply a sample of safety surface proposed for project. Size and depth of sample will be agreed upon prior to submittal.
- G. Upon request, a list of all organizations and affiliations of the company offering the product(s).

1.05 DELIVERY, STORAGE and HANDLING:

Materials and equipment shall be delivered and/or stored in accordance with the Manufacturer's recommendations. All material shall be stored for protection from weather and vandalism and adhesives should be stored at temperatures above 40°F.

1.06 PROJECT SITE CONDITIONS:

- A. Synthetic safety surfacing shall be installed on a dry subsurface, with no prospect of rain within the initial drying period, at temperatures recommended by the manufacturer.
- B. Installation in weather condition of extreme heat, temperatures less than 40 degrees (F), and/or high humidity may impact cure time, and/or the structural integrity of the final product. The ambient air temperature during installation must be a minimum of 40°F and should remain at this degree for a minimum of 72 hours after installation is complete.
- C. Immediate surroundings of the site shall be reasonably free of dust conditions and poor particulate air quality will impact the final surface look.
- D. The manufacturer's installation manager shall reserve the right to control the project schedule installation based on such factor without penalty to No Fault Sport Group, LLC.
- E. Safety tiles shall be installed after the playground equipment is installed unless otherwise noted.
- F. Surface installation shall be coordinated by the project manager with No Fault Sport Group's local production manager and in accordance with No Fault's sub-base requirements.

1.07 WARRANTY:

All surfacing components shall maintain required technical specifications and be fit for those applications as set forth in the Manufacturer's published technical and promotional materials and will be guaranteed against material defects as specified and agreed upon per contract.

PART 2 – PRODUCTS

No Fault Safety Tiles as are manufactured by ECORE International and sold exclusively by No Fault Sport Group, LLC and it's authorized agents, 1-866-637-7678 or www.nofault.com.

NOTE – Other products will be allowed only if prior approved as per Section 2.02 Product Substitutions & Approved Equals

2.01 MATERIALS

- A. No Fault Safety Tile shall consist of a high density, water permeable wear surface; with tapered conical support legs, a surface expansion joint, and perimeter adhesion in order to maximize shock attenuation, walkability, ease of installation, and water drainage.
- B. No Fault Safety Tile is a factory-molded surface composed of high quality SBR rubber granules bound with a wear and weather resistant polyurethane.
- C. The polyurethane binder used shall be composed of MDI (diphenylmethanediisocyanate) isocyanate and polyether (polypropyleneglycol) polyols. TDI (toluene diisocyanate) isocyanate or catalysts based on lead or mercury are not utilized.

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- D. Rubber granules are blends of ground rubber particulates specially blended to enhance tile strength, durability, and energy absorption characteristics.
- E. All coloring pigments are inorganic oxides. Pigments based on cadmium are not utilized.
- F. No Fault Safety Tiles are manufactured to the following minimum standards:
 - 1) Dimensions: 24" x 24" +/- 1/8" for both 2.25" thickness & 3.75' thickness
 - 2) Wear Surface Density: 50 lbs/cu.ft., min. for 2.25" thickness & 48 lbs./cu.ft., min. for 3.75 thickness
 - 3) Coefficient of Thermal Expansion: 1.10 x 10⁻³in./ft./°F for both 2.5" thickness & 3.75' thickness
 - 4) Void Volume: 42% min. for 2.25" thickness & 50% min. for 3.75 thickness
 - 5) Water Permeation Rate: 0.045cm/sec for both 2.25" thickness & 3.75' thickness
- G. The colors of No Fault Safety Tile shall be Gray, Black, Red, or Green as selected by architect or owner during the submittal process. Color samples provided upon request.
- H. Adhesive – a single component, high solid moisture cured, polyurethane advised as supplied by No Fault Sport Group.

2.02 PRODUCT SUBSTITUTIONS & APPROVED EQUALS

- A. All product substitutions must be submitted for preapproval at least fourteen (14) days prior to bid opening date. A complete submittal package, as outlined in Section 1.03 Submittals, must be provided before a substitute product will be considered for preapproval. If the product submitted for preapproval cannot meet all requirements of the submittal package, it will not be considered.
- B. Once all products submitted for substitution have been reviewed, a list of the approved substitutes will be circulated and made available to bidders.

PART 3 – EXECUTION

3.01 SITE PREPARATION

- A. Owner or owner's representative shall provide sub-surface in accordance with manufacturer's recommendation for the project location and application.
- B. The base shall be concrete, asphalt, or compacted stone installed in accordance with manufacturer's written specifications.
- C. The base shall have the specific minimum slope (2%) and shall vary no more than 1/8" when measured in any direction with a 10' foot straight edge. Verify that sub-surfacing drainage, if required, has been installed to provide positive drainage.
- D. Tolerance of concrete or bituminous subsurface shall be within 1/8 inch (3.0 mm) in 10 feet (3050 mm). Tolerance of aggregate subsurface shall be within 3/8 inch (10mm) in 10 ft (3050 mm). Verify that aggregate subsurface has been fully compacted in 2" lifts to 95 percent or greater.
- E. Asphalt base shall be allowed to cure a minimum of fourteen (14) days and new concrete shall be allowed to cure a minimum of seven (7) days prior to commencement of surfacing.
- F. All sub-bases shall be approved by Owner or Owner's Representative prior to installation of the safety surface.
- G. Alternate sub-base material must have prior approval from manufacturer.

3.02 PREPARATION

- A. Scheduling – No Fault Safety Tiles shall be installed after other sub-contractors are complete; the area is free from pedestrian traffic; and under the conditions as outlined in Section 1.06 Project Site Conditions.
- B. Cleaning - The entire subsurface shall be clean, dry and free from any foreign and loose material.

3.03 INSTALLATION

No Fault Safety Tile shock-absorbing resilient tile may be installed outdoors over existing asphalt or concrete surfaces or over a new asphalt, concrete, or compacted aggregate base. For complete design and installation information, please contact NO FAULT SPORT GROUP, LLC 866-637-7678.

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3.04 PROTECTION

- A. The synthetic safety tile shall be allowed to fully cure in accordance with Manufacturer's instructions. The surface shall be protected by the owner from all traffic during the curing period of 48 to 72 hours after surface installation is complete, or as instructed by the manufacturer.
- B. Surface installation crew shall be responsible for the protection of the safety tiles during the installation process only. Owner or general contractor shall be responsible for protection of the safety tiles during the crew's off hours and curing period.

3.05 CLEAN UP

- A. Manufacturer's installers shall not leave adhesive on adjacent surface or play equipment. Spills of excess adhesive shall be promptly cleaned.
- B. Manufacturer's installers shall properly dispose of all material and packing waste before leaving the job site.
- C. Owner or contractor shall be responsible for supplying a dumpster at job site for all waste associated with installation of the safety tile.

**FOR INDIVIDUAL PROJECT SPECIFICATIONS OR OTHER
INFORMATION INCLUDING FALL HEIGHT REQUIREMENTS
PLEASE CONTACT NO FAULT SPORT GROUP, LLC 866-637-7678
WWW.NOFAULT.COM**